

## ABSTRACT OF THE DISCLOSURE

A recording state detection system includes a Viterbi detection unit, an error calculation unit for calculating error data series representing a difference between each sample data of the reproduced data series and a corresponding data of the data series output from the Viterbi detection unit, a normal level judgement unit for judging the normal level of each sample data, and a state calculation unit for calculating the amplitude data and the asymmetry of the sample data series based on the error data series and the normal level. The disk drive unit corrects a recording optical power based on the calculated amplitude and the asymmetry.